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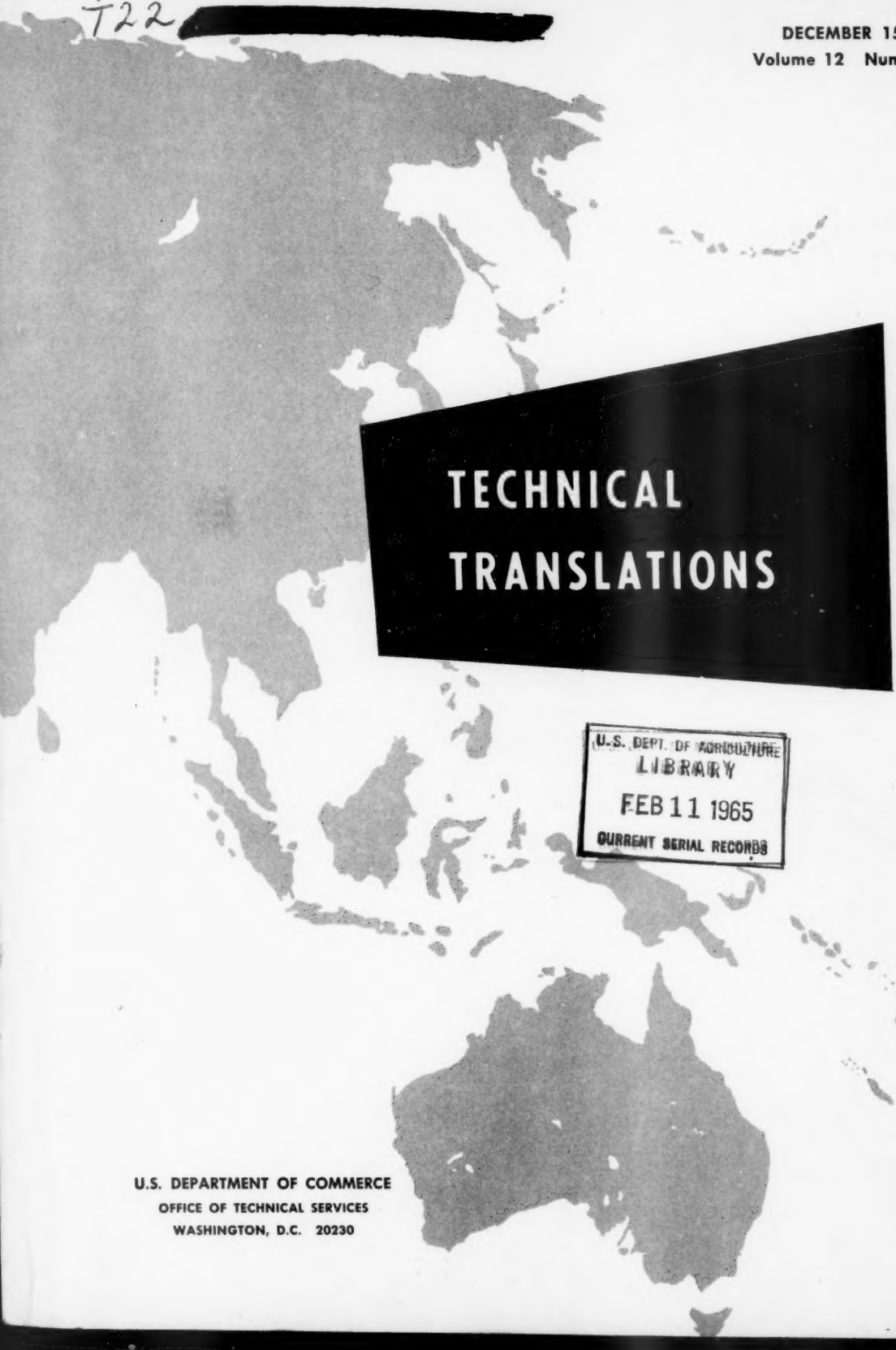

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TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, Director

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Use of funds for printing this publication approved by the Director of the Bureau of the Budget, November 22, 1961

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NOTICES TO SUBSCRIBERS

New OTS Pricing

A new OTS standard pricing schedule has been adopted. The new prices, which became effective with the October 15, 1964 issue, apply only to translations acquired and sold by the Office of Technical Services and in general are 1/3 lower than the average previous prices. Prices for documents acquired and sold by other sources are not affected.

OTS has changed also its system of microphotography from microfilm to microfiche (a unitized sheet form of microphotography). Most Government agencies are converting because microfiche has many advantages over microfilm. It can be produced faster and at less cost, disseminated rapidly, filed and stored easily.

OTS will use the International Standard size of microfiche sheet of 105 mm. x 148 mm. (approximately 4" x 6"). Image size will be generally an 18:1 reduction.

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The Special Literature Searching Service is a subscription-type service to provide subscribers with bibliographic information tailored to their specifications. For information on this service, write to OTS, U. S. Department of Commerce, Washington, D. C., 20230.

HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P.O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145-19th Street, N.W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P.O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31 Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Morely Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconson 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. Box 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S. E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MPIK
Max-Planck-Institut für Kohlenforschung
Bibliothek der Abteilung Strahlenchemie Stiftstrasse 34-36
433 Mülheim and der Ruhr,
West Germany

MT
M. de O. Tollemache
Pennyford Cottage
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council
Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Clearinghouse for Federal Scientific and Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N.W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TDL
Mr. John Wiley
Technical Development Laboratories
P.O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TIB
Technische Informationsbibliothek
Am Welfengarten 1
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W.C.2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402;

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TECHNICAL TRANSLATIONS

Volume 12, Number 11 Pages 829 - 873 December 15, 1964

AGRICULTURE

FARM MACHINERY: SELECTED ARTICLES. 1964 [42p] 11refs PL-480 Agr.
Order from OTS HC $2.00 TT-63-11010

Trans. of Tekhnika v Sel'skom Khozyaistve (USSR) 1960 [v. 20, no. 1] p. 47-52; Traktory i Sel'khozmashiny (USSR) 1960 [v. 30] no. 4, p. 12-14; no. 5, p. 17-20; no. 7, p. 37-43.

Separate entries have been made for the individual articles.

Kotlyarov, V.
USE OF TRACTOR A.C. GENERATORS (Ekspluatatsiya Traktornykh Generatorov Peremennogo Toka). 1964, 5p PL-480 Agr.
Order from OTS HC $2.00 in TT-63-11010 (p. 6-10)

Trans. of Tekhnika v Sel'skom Khozyaistve (USSR) 1960 [v. 20, no. 1] p. 50-52.

Likhoedenko, K. I.
OPERATION OF TRACTOR PLOW BOTTOMS AT INCREASED SPEEDS (O Rabote Korpusov Traktornykh Plugov na Povyshennykh Skorostyakh). 1964, 8p 6refs PL-480 Agr.
Order from OTS HC $2.00 in TT 63-11010 (p. 17-24)

Trans. of Traktory i Sel'khozmashiny (USSR) 1960 [v. 30] no. 5, p. 17-20.

Sal'nikov, V.
SELF-SHARPENING KNIVES OF ROTARY TILLERS (Samozatachivayushchiesya Nozhi Pochvoobrabatyvayushchikh Frez). 1964, 5p PL-480 Agr.
Order from OTS HC $2.00 in TT-63-11010 (p. 1-5)

Trans. of Tekhnika v Sel'skom Khozyaistve (USSR) 1960 [v. 20, no. 1] p. 47-50.

Sofiyan, A. P.
THE PROBLEM OF ADHESION OF TRACTOR TRACKS TO THE GROUND (K Voprosu Stsepleniya Gusenitsy s Gruntom). 1964, 6p 5refs PL-480 Agr.
Order from OTS HC $2.00 in TT-63-11010 (p. 11-16)

Trans. of Traktory i Sel'khozmashiny (USSR) 1960 [v. 30] no. 4, p. 12-14.

Plant Cultivation

THE BUILDING OF COMMUNISM IN THE USSR AND THE DEVELOPMENT OF AGRICULTURE, VOL. 8. The Speeches and Writings of N. S. Khrushchev. 11 Aug 64, 128p JPRS: 25842.
Order from OTS HC $4.00, MF $1.00 TT-64-41113

Trans. of 10 selected articles from mono. Stroitel'stvo Kommunizma v SSSR i Razvitie Sel'skogo Khozyaistva, v. 8, Moscow, 1964.

STUDIES IN AGRICULTURAL FERTILIZATION. 26 Jun 64, 20p JPRS: 25253.
Order from OTS HC $0.75, MF $0.50 TT-64-31558

Trans. of Zemledelie (USSR) 1963 [v. 25] no. 10, p. 30-34, 41-49.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Fedorin, Yu. V.
SOILS OF KAZAKH SSR. [VOL. I]. THE NORTH-KAZAKHSTAN REGION
A. Gourevitch, tr. 1964 [214p] 72refs PL-480 Agr.
Order from OTS HC $6.00 TT-64-11012

Trans. of mono. Pochvy Kazakhskoi SSR. [v. 1 Pochvy Severo-Kazakhskoi Oblasti] Alma-Ata, 1960 [176p].

Lima, A. R., Brieger, F. G., and Santos, S. R. dos.
SELECTION OF "YELLOWISH" TOBACCO FOR THE DRYING CHAMBER. 23p.
Order from K-H $13.80 K-H 1240 d

Trans. of Bragantia (Brazil) 1944, v. 4, p. 523-540.

Lucacci, G. and Armini, M. d'
COMBATING OIDIUM (MILDEW) OF TOBACCO WITH SMALL DOSES OF SULFUR PRODUCTS. 6p.
Order from K-H $4.80 K-H-2974-b

Trans. of il Tabacco (Italy) 1953, v. 57, no. 651, p. 354-357.

Mazzeo, Mario.
FLORA OF SEVERAL SMOKING TOBACCOS, ESPECIALLY THE STUBS, AND THE ANTIMICROBIAL POWER OF THE CORRESPONDING INFUSIONS. 30p.
Order from K-H $18.00 K-H 810 a

Trans. of Folia Medica (Italy) 1932, v. 18, p. 594-613.

Mira, Enrique Alcaraz and Borbolla y Alcala, Jose Maria R. de la.
ABSORPTION OF FERTILIZING ELEMENTS BY THE TOBACCO PLANT. 62p.
Order from K-H $37.20 K-H 1582 a

Trans. of Instituto Nacional de Investigaciones Agronomicas. Boletin (Spain) 1945 [v. 5] no. 13, p. 17-67.

Mira, Enrique Alcaraz and Bores, Jose Maria Sequeiros.
ABSORPTION POWER OF THE PRINCIPAL VARIETIES OF TOBACCO GROWN IN SPAIN. 43p.
Order from K-H $25.80 K-H 1997

Trans. of Instituto Nacional de Investigaciones Agronomicas. Boletin (Spain) 1945 [v. 5] no. 12, p. 285-328.

Mira, Enrique Alcaraz and Borbolla y Alcala, Jose M[aria] R. de la.
COMBUSTIBILITY AND CHEMICAL COMPOSITON OF SPANISH TOBACCOS, I. 43p.
Order from K-H $25.80 K-H 1691

Trans. of Instituto Nacional de Investigaciones Agronomicas. Boletin (Spain) 1946 [v. 6] no. 15, p. 97-128.

Mira, Enrique Alcaraz and Borbolla y Alcala, J[ose] M[aria] R. de la.
THE COMBUSTIBILITY AND CHEMICAL COMPOSITION OF SPANISH TOBACCOS. II. ITS CORRELATION WITH THE CHLORINE CONTENTS. 25p.
Order from K-H $15.00 K-H 1986

Trans. of Instituto Nacional de Investigaciones Agronomicas. Boletin (Spain) 1949, v. 9, Jun, p. 165-193.

Peterburgskii, A. V.
THE STATUS AND PROSPECTS OF CHEMIZATION OF AGRICULTURE IN THE USSR. 11 Sep 64, 27p 29refs JPRS: 26366.
Order from OTS HC $2.00, MF $0.50 TT-64-41625

Trans. of Akademiya Nauk SSSR. Izvestiya. Seriya Biologicheskaya, 1964 [v. 29] no. 2, p. 177-196.

ASTRONOMY

Astrophysics

Krat, V.
EXPLOSIONS ON THE SUN. 21 Sep 64 [8p] FTD-TT-64-408; AD-607 140.
Order from OTS HC $1.00, MF $0.50 TT-64-71538

Unedited rough draft trans. from Izvestiya (USSR) 1962, no. 10, p. 4.

Orlova [N. S.].
THE ABSOLUTE BRIGHTNESS VALUES OF THE LUNAR EDGE AT VARIOUS PHASES
George Kasachkoff, tr. 21 Sep 64 [8p] 2refs RSIC-274; AD-606 781.
Order from OTS HC $1.00, MF $0.50 TT-64-71487

Trans. of Astronomicheskii Tsirkulyar (USSR) 1958, no. 192, p. 20-21.

Sharonov, V. V.
INVESTIGATIONS ON THE COLORIMETRY OF THE MOON. PT. I. VISUAL COLORIMETRY OF INTEGRAL MOONLIGHT. PT. II. A NEW PROCESSING OF THE POTSDAM SPECTROPHOTOMETRY. 22 Sep 64 [32p] 22refs RSIC-283; AD-607 393.
Order from OTS HC $2.00, MF $0.50 TT-64-71577

Trans. of Leningrad Univ. Vestnik (USSR) 1955, v. 10, no. 11 [Seriya Matematiki; Fiziki i Khimii, no. 4] p. 113-120; 1956, v. 11, no. 1 [Seriya Matematiki, Mekhaniki i Astronomii, no. 1] p. 155-167.

Simonenko, A. N.
THE PROCESSING OF METEOR PHOTOGRAPHS
D. Shalikashvili, tr. Apr 64 [76p] 15refs ACIC TC-807.
Order from OTS or ETC HC $3.00, MF $0.75 TT-64-19760

Trans. of mono. Obrabotka Fotografii Meteorov, Moscow, 1963, 40p.

Sytinskaya, N.
CORRELATION OF STEPS OF A VISUAL BRIGHTNESS SCALE OF LUNAR OBJECTS WITH ABSOLUTE VALUES OF THE BRIGHTNESS FACTOR
George Kasachkoff, tr. 21 Sep 64 [8p]
RSIC-273; AD-606 780.
Order from OTS HC $1.00, MF $0.50 TT-64-71485

Trans. of Astronomicheskii Tsirkulyar (USSR) 1953, no. 144, p. 11-12.

Zigel', F. Yu.
NUCLEAR EXPLOSION OVER THE TAIGA. 15 Oct 64 [19p] (figs omitted) FTD-TT-64-228; AD-607 498.
Order from OTS HC $1.00, MF $0.50 TT-64-71602

Unedited rough draft trans. of Znanie-Sila (USSR) 1961 [v. 36] no. 12, p. 24-27.
Another trans. is available from OTS $0.50 as TT-62-11648, JPRS-13480, 17 Apr 62, 11p.

BEHAVIORAL SCIENCES

PSYCHOLOGY IN THE SOVIET UNION. 30 Jun 64, 64p 51refs JPRS: 25295.
Order from OTS HC $1.75, MF $0.75 TT-64-31585

Trans. of #Voprosy Psikhologii (USSR) 1964, v. 10, no. 2, p. 3-15, 40-48, 57-65, 87-97, 181-185.

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Personnel and Training

THE HONORED VOCATION OF ENGINEER.
2 Oct 64 [8p] FTD-TT-64-618; AD-607 181.
Order from OTS HC $1.00, MF $0.50 TT-64-71549

Unedited rough draft trans. from Krasnaya Zvezda (USSR) 1964, no. 5(12221) 7 Jan, p. 1.

INFORMATION ON ISRAELI SCIENTIFIC AND TECHNICAL PERSONALITIES. 31 Dec 63, 24p JPRS: 22516.
Order from OTS $0.75 TT-64-21162

Consist of 5 articles from 1963 issues of Israeli journals and newspapers.

Elha.
INTERNATIONAL RECORD OF MARINA POPOVICH.
23 Sep 64 [7p] FTD-TT-64-971; AD-607 303.
Order from OTS HC $1.00, MF $0.50 TT-64-71565

Unedited rough draft trans. of Skrzydlata Polska, 1964 [v. 20] no. 30, p. 9.

Lebedinskii, M.
DEGREES OF TALENT. 19 Sep 64 [9p]
FTD-TT-64-342; AD-607 128.
Order from OTS HC $1.00, MF $0.50 TT-64-71524

Unedited rough draft trans. of Kryl'ya Rodiny (USSR) 1963 [v. 14] no. 12, p. 14-15.

BIOLOGICAL SCIENCES

FEDERATION PROCEEDINGS TRANSLATION SUPPLEMENT, VOL. 23, NO. 5, PT. II. P. T915-T1168. Sep/Oct 64.
Order from FASEB $2.00, $10.00/year or $12.00/year with Federation Proceedings.

Separate entries have been prepared for the individual translations included in the issue.

POLISH MEDICAL JOURNAL, 1964, Vol. 3, NO. 2, P. 235-488. 1964, lv. PL-480 HEW.
Order from OTS HC$2.50 TT-64-11409/2

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1963, VOL. 14, NO. 6.

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JPRS: 25,253

AGRICULTURE
(Zemledelie)

1963, VOL. 25, NO. 10

STUDIES IN AGRICULTURAL FERTILIZATION

[The following are translations of three articles in the Russian-language journal Zemledeliye (Agriculture), Moscow, No 10, 1963. Complete bibliographic information accompanies each article.]

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ALL-UNION CONFERENCE ON THE GLASSY STATE (NO. 4). SUMMARIES OF REPORTS
(Vsesoyuznoe Soveshchanie po Stekloobraznomu Sostoyaniyu (no. 4). Tezisy Dokladov)

MOSCOW/LENINGRAD, 1964

THE GLASSY STATE

- USSR -

/Following is the translation of a Russian-language book originally entitled IV[th] All-Union Conference on the Glassy State -- Summaries of Reports, edited by L. V. Yegorov, Khimiya Publishing House, Moscow-Leningrad, 1964, pages 1-94./

The Conference was organized by the Section on Glass Structure and Nature of the Glassy State, of the Scientific Councils on Glass of the State Committee on the Coordination of Scientific Research in the USSR, and Academy of Sciences USSR, Institute of Silicate Chemistry imeni I. V. Grebenshchikov, Central and Leningrad Oblast Boards of the All-Union Chemical Society imeni D. I. Mendeleyev, State Optical Institute imeni S. I. Vavilov, and the State Institute of Glass.

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JPRS: 25,097

AUTOMATION
(Avtomatyka)

1964, VOL. 9, NO. 2.

MODELLING OF AUTOMATIC CONTROL SYSTEMS

- USSR -

Following is a translation of five articles in the Ukrainian-language journal Avtomatyka (Automation), Kiev, Vol IX, No 2, 1964. Complete bibliographic information accompanies each article.

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CONTROLLABLE PITCH SCREW PROPELLERS AND THEIR USE WITH VARIOUS POWER PLANTS

Moscow, 1963

CONTROLLABLE PITCH PROPELLERS AND SHIP DESIGN

- USSR -

Following is a translation of selected sections from the Russian-language book by P. V. Orekhov and V. S. Murugov Grebnye vinty reguliruyemogo shaga i ikh sovmestnaya rabota s silovymi ustanovkami (Controllable Pitch Screw Propellers and Their Use with Various Power Plants), USSR Academy of Sciences, Engine Institute. Publishing House of the Academy of Sciences, Moscow, 1963, pages 3-5, 6-10, 11-21, 22-24, 25-47, 157-159, 180-185.

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JPRS: 25,135

FOUNDRY PRODUCTION

(Liteinoe Proizvodstvo)
1964, no. 1

PROBLEMS OF INVESTMENT AND CHILL CASTING

- USSR -

Following is a translation of three articles in the Russian-language journal Liteynaye Proizvodstvo (Foundry Production), Moscow, No 1, January 1964. Complete bibliographic information accompanies each article.

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JOURNAL OF MICROBIOLOGY, EPIDEMIOLOGY AND IMMUNOBIOLOGY
(Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii)

1964 VOL. 41, NO. 5

STUDIES IN MICROBIOLOGY, EPIDEMIOLOGY AND IMMUNOBIOLOGY

[Following is a translation of the major portion of the Russian-language journal Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii (Journal of Microbiology, Epidemiology and Immunobiology), Moscow, No 5, May 1964, pages 3-6, 6-14, 24-28, 28-33, 36-41, 41-45, 45-50, 50-53, 54-57, 58-60, 100-101, 138-141, 142-143, 144, 144-145, and 146.]

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LABOR HYGIENE AND OCCUPATIONAL DISEASES
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1964, VOL. 8, NO. 4.

STUDIES IN TOXICOLOGY

[Following are translations of four articles in the Russian-language journal Gigiyena Truda i Professional'nyye Zabolevaniya (Labor Hygiene and Occupational Diseases), Apr 1964. Complete bibliographic information accompanies each article.]

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1963, VOL. 6, NO. 1

Izvestiya VUZov: NONFERROUS METALLURGY

- USSR -

No 1, 1963

Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy: Tsvetnaya Metallurgiya (News of Higher Educational Institutions: Nonferrous Metallurgy), No 1, 1963, Ordzhonokidze, pp 1-175.

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- USSR -

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The Department of Commerce maintains Field Offices to enable the business community to avail itself locally of Government facilities designed to promote commerce. Working closely with various units in the Department and, when necessary, with other Government agencies, the Field Offices provide business services to manufacturers, wholesalers, retailers, trade publications, trade associations, advertising agencies, research groups, financial institutions, and exporters and importers.

Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field Offices act as official sales agents of the Superintendent of Documents, and maintain an extensive business reference library containing periodicals, directories, publications and reports from official as well as private sources.

Among the many services which businessmen have found of value are:

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- Management and business aids
- Establishing a new business

BASIC ECONOMIC DATA

- Census data with national and often State and regional breakdowns, on manufacturing wholesaling, retailing, service industries, employment and unemployment, population, housing, agriculture
- Basic records of national income and product, regional trends, balance of payments, foreign aid

MARKETING AND DISTRIBUTION

- Development and maintenance of markets
- Distribution channels, facilities and services
- Marketing and distribution statistics

PRODUCTION

- Modernization of plant processes and other technological aids
- Development of new products
- Government-owned patents for free license
- Commodity standards

FOREIGN TRADE AND INVESTMENT

- Tariff and exchange regulations
- Import and export quotas, licensing regulations
- Statistics on imports and exports
- Investment and trade opportunities abroad
- Economic conditions in foreign countries

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To make the services of the Department of Commerce more widely available, agreements have been entered into with more than 750 Chambers of Commerce, Manufacturers Associations, and similar business groups under which these organizations have become official Cooperative Offices of the Department. If specific information is not on hand in the Cooperative Office, your problem will be referred to the nearest Departmental field office.

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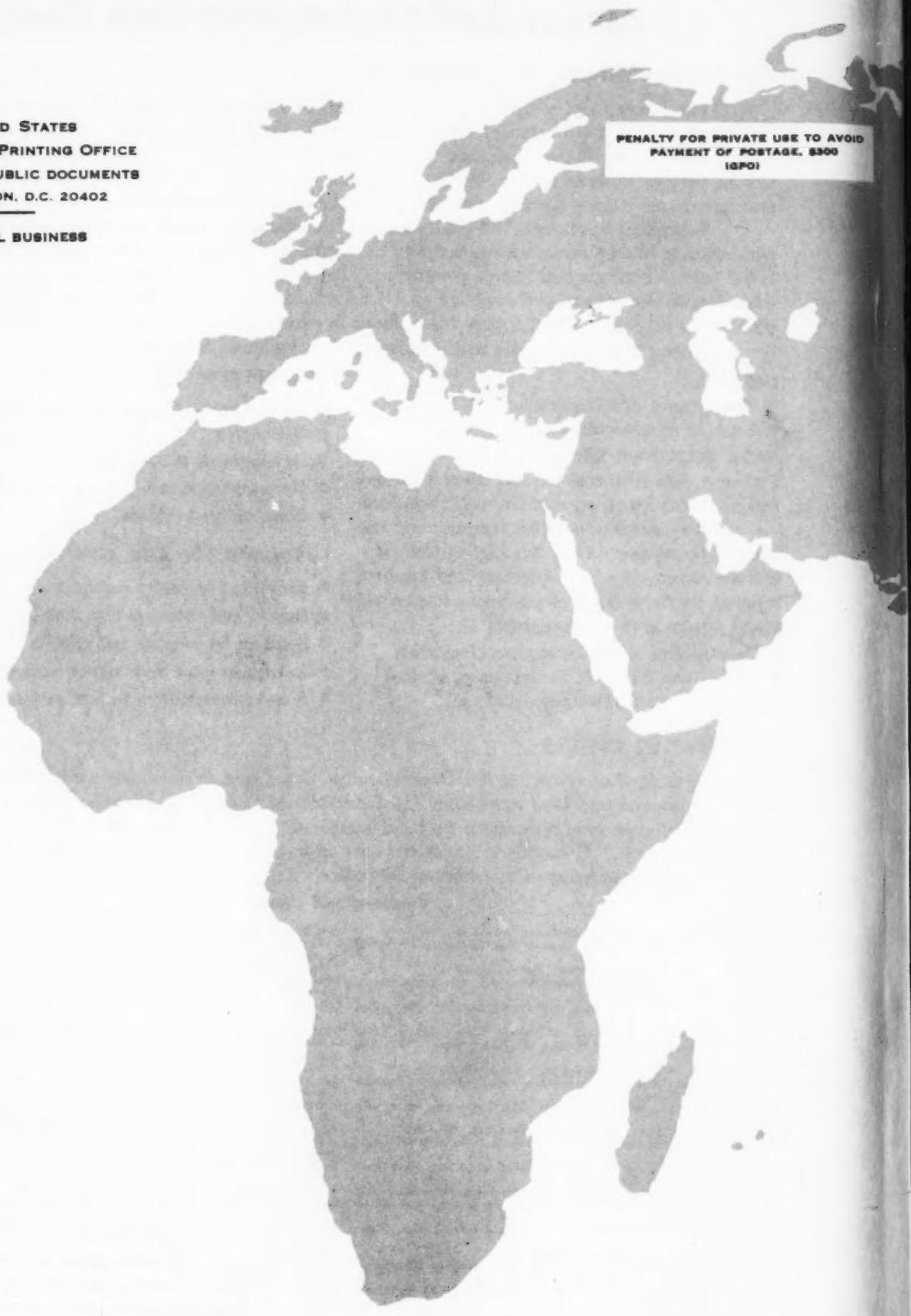
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